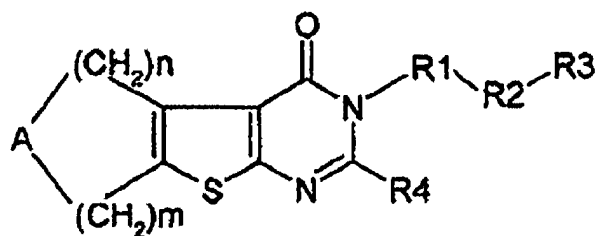


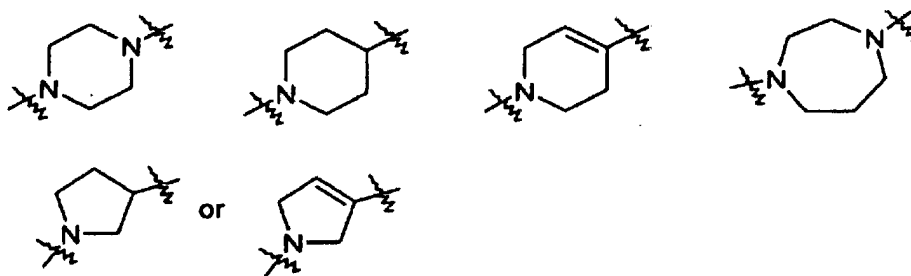
Amendments to the Claims

1. (Original) A compound of the formula (I)



in which

- A is O, S, SO, NR⁵ or CH₂;
 R⁵ is H, C₁₋₅-alkyl, aryl, aralkyl, acyl or alkoxycarbonyl;
 R₄ is H or methyl;
 n is 1 or 2;
 m is 1 or 2;
 R₁ is C₁₋₈-alkylene;
 R₂ is a group of the formula

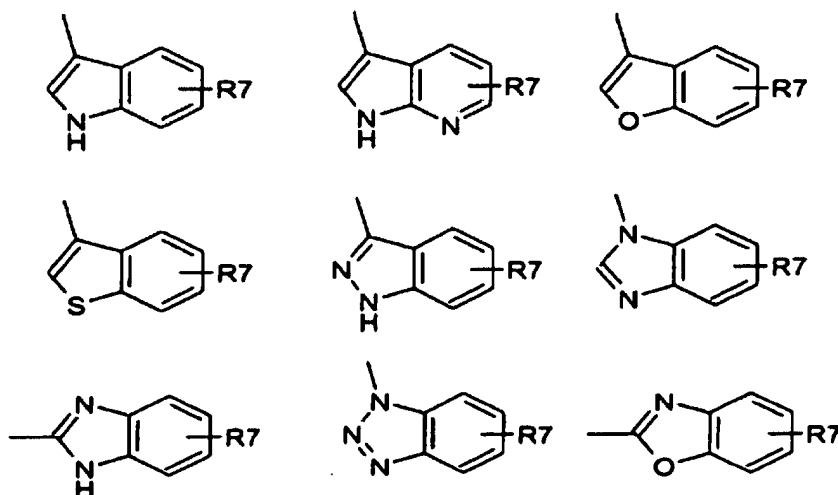


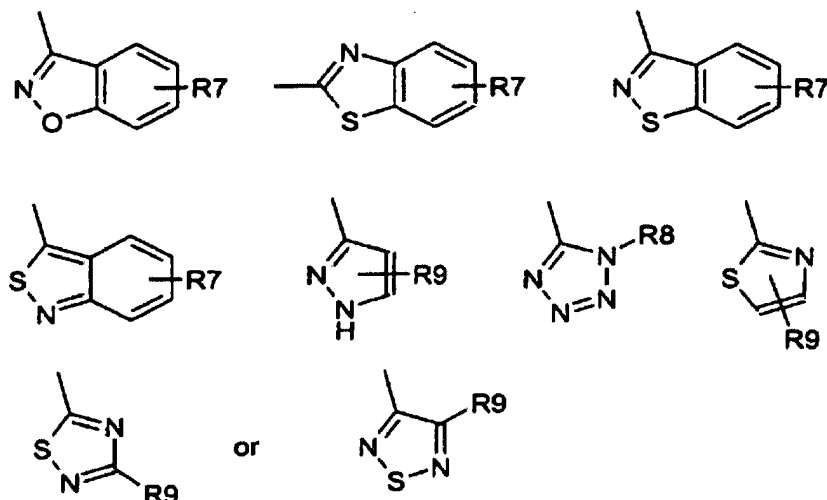
- R₃ is 5-membered heteroaryl which may be fused to an aryl or heteroaryl radical, where the heteroaryl and, optionally, the fused aryl or heteroaryl radical may have 1, 2 or 3 substituents selected independently of one another from C₁₋₅-alkyl, C₁₋₅-alkoxy, C₁₋₅-alkylthio, halogen, CN, halo-C₁₋₅-alkyl, halo-C₁₋₅-alkoxy, hydroxy -NH₂, -N(R₆)₂, -NH(R₆), aryl, aryloxy, aralkyl, aralkyloxy and heteroaryl, where the substituents aryl, aryloxy, aralkyl, aralkyloxy and heteroaryl may have 1, 2 or 3 substituents selected

independently of one another from C₁₋₅-alkyl, C₁₋₅-alkoxy, C₁₋₅-alkylthio, halogen, CN, halo-C₁₋₅-alkyl, halo-C₁₋₅-alkoxy, hydroxy, -NH₂, -N(R₆)₂ and -NH(R₆); and the radicals R₆ are independently of one another C₁₋₅-alkyl, and physiologically tolerated salts thereof.

2. (Original) The compound according to claim 1, wherein R₃ is 1H-indol-3-yl, 1H-pyrrolo[2,3-b]pyridin-3-yl, 1-benzofuran-3-yl, 1-benzothien-3-yl, 1H-indazol-3-yl, 1H-benzimidazol-1-yl, 1H-benzimidazol-2-yl, 1H-benzotriazol-1-yl, 1,3-benzoxazol-2-yl, 1,2-benzisoxazol-3-yl, 1,3-benzothiazol-2-yl, 1,2-benzisothiazol-3-yl, pyrazol-3-yl, 1H-tetrazol-5-yl, 1,3-thiazol-2-yl or 1,2,4-thiadiazol-5-yl, which may have 1, 2 or 3 substituents selected independently of one another from C₁₋₅-alkyl, C₁₋₅-alkoxy, halogen, CN, SCH₃, trifluoromethyl, hydroxy, -N(C₁₋₅-alkyl)₂, -NH(C₁₋₅-alkyl), -NH₂, aryl, aryloxy, aralkyl, aralkyloxy and heteroaryl, where the substituents aryl, aryloxy, aralkyl, aralkyloxy and heteroaryl may have 1, 2 or 3 substituents selected independently of one another from C₁₋₅-alkyl, C₁₋₅-alkoxy, halogen, CN, SCH₃, trifluoromethyl, hydroxy, -N(C₁₋₅-alkyl)₂, -NH(C₁₋₅-alkyl) or -NH₂.

3. (Previously Presented) The compound according to claim 2, wherein R₃ is a radical of the formula

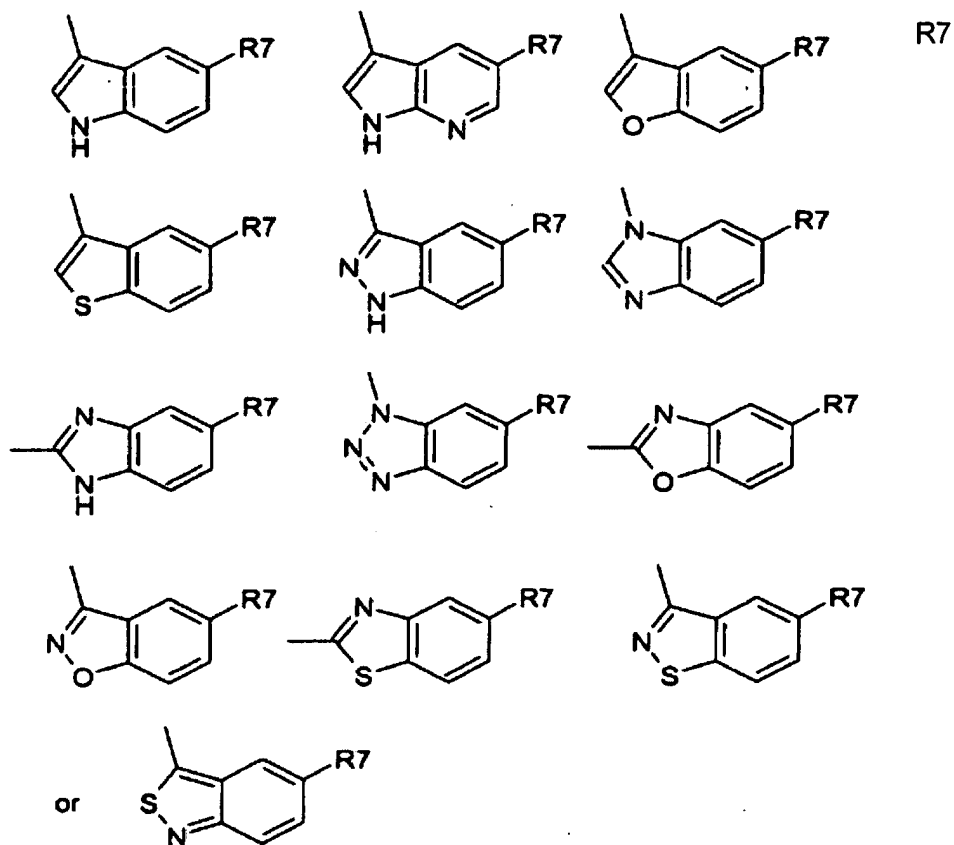




in which

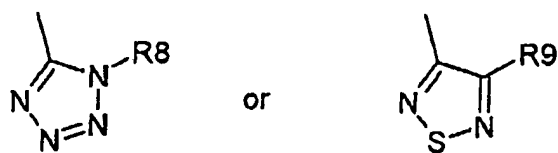
- R7 is H, C₁₋₅-alkyl, C₁₋₅-alkoxy, C₁₋₅-alkylthio, halogen, CN, halo-C₁₋₅-alkyl, halo-C₁₋₅-alkoxy, hydroxy, -NH₂, -N(R6)₂ or -NH(R6); and
- R8 is H, C₁₋₅-alkyl, aryl, aralkyl or heteroaryl;
- R9 is H, C₁₋₅-alkyl, C₁₋₅-alkoxy, C₁₋₅-alkylthio, halogen, CN, halo-C₁₋₅-alkyl, halo-C₁₋₅-alkoxy, hydroxy, -NH₂, -N(R6)₂, -NH(R6), aryl, aryloxy, aralkyl, aralkyloxy or heteroaryl, where aryl, aryloxy, aralkyl, aralkyloxy or heteroaryl may have 1, 2 or 3 substituents selected independently of one another from C₁₋₅-alkyl, C₁₋₅-alkoxy, C₁₋₅-alkylthio, halogen, CN, halo-C₁₋₅-alkyl, halo-C₁₋₅-alkoxy, hydroxy, -NH₂, -N(R6)₂ and -NH(R6); and the radicals
- R6 have the meaning indicated in claim 1.

4. (Original) The compound according to claim 3, wherein R3 is a radical of the formula



in which R7 is as defined in claim 3.

5. (Original) The compound according to claim 3, wherein R3 is a radical of the formula

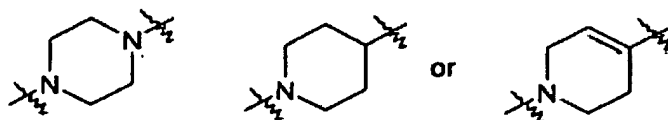


where R8 and R9 are as defined in claim 3.

6. (Previously Presented) The compound according to claim 4, wherein R7 is H, C₁-5-alkyl, preferably methyl, halogen or halo-C₁₋₅-alkyl.

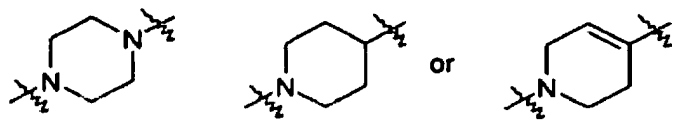
7. (Previously Presented) The compound according to claim 5, wherein R8 is C₁₋₅-alkyl or aryl.

8. (Previously Presented) The compound according to claim 5, wherein R9 is C₁₋₅-alkoxy, aryl which may be substituted, or heteroaryl.
9. (Previously Presented) The compound according to claim 1, wherein A is O, S or NR₅, where R₅ is as defined in claim 1.
10. (Original) The compound according to claim 1, wherein R₄ is hydrogen.
11. (Original) The compound according to claim 1, wherein n is 2 and m is 1 or n is 1 and m is 2.
12. (Original) The compound according to claim 1, wherein R₁ is eth-1,2-ylene, prop-1,3-ylene, prop-1,2-ylene, 2-methyl-prop-1,3-ylene, but-1,2-ylene or but-1,3-ylene.
13. (Original) The compound according to claim 1, wherein R₂ is a group of the formula



14. (Original) The compound according to claim 1, wherein
- R₄ is hydrogen;
- n, m are 2, 1 or 1, 2;
- R₁ is eth-1,2-ylene, prop-1,3-ylene, prop-1,2-ylene, 2-methylprop-1,3-ylene, but-1,2-ylene or but-1,3-ylene;

R2 is a group of the formula



and

R3 is as defined in claim 1;

15. (Original) The compound according to claim 14, namely

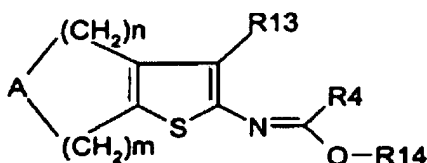
3-substituted 5,6,7,8-tetrahydropyrido[4',3':4,5]thieno[2,3-d]pyrimidin-4(3H)-one derivatives;

3-substituted 3,5,6,8-tetrahydro-4H-pyrano[4',3':4,5]thieno[2,3-d]pyrimidin-4-one derivatives, or

3-substituted 3,5,6,8-tetrahydro-4H-thiopyrano[4',3':4,5]thieno[2,3-d]pyrimidin-4-one derivatives.

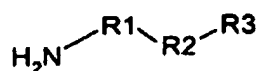
16. (Currently Amended) A process for preparing a compound according to claim 1

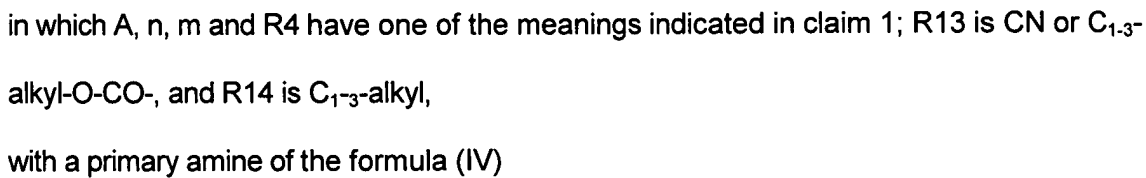
a) by reacting a compound of the formula (II)



in which A, n, m and R4 have one of the meanings indicated in claim 1; R13 is CN or C,-3-alkyl-O-CO-, and R14 is C1.3-alkyl,

with a primary amine of the formula (III)





in which A, n, m, R4 and RI have one of the meanings indicated in claim 1, with
a halogenating agent such as thionyl chloride; and

in which A, n, m, R4 and R1 have one of the meanings indicated in claim 1, and R15 is halogen,

with a secondary amine of the formula (VII)

H—R2—R3

in which R2 and R3 have one of the meanings indicated in claim 1,
and isolating and, optionally, converting the resulting compound into a physiologically
tolerated salt thereof.

17. (Canceled).

18. (Original) A pharmaceutical composition comprising at least one compound
according to claim 1 and physiologically acceptable aids.

19-21. (Canceled)

22. (Currently Amended) A The method for treatment of depression which comprises
administering an effective amount of a compound according to claim 1 to an individual in
need thereof ~~according to claim 19, where the disorder is depression.~~

23-28. (Canceled)